# BRUHATH BANGALORE MAHANAGARA PALIKE

**Yalahanka ELECTRICAL DIVISION**

## PRE MEASUREMENT BOOK

**Name of work** :-Annual Maintenance and repairs of street lights in ward no 06 Package Y -06 of Yelahanka Zone.

**Name of Contractror of nature of Agency:-**Sri Pradeep kumar S.N. Pro of M/s Ganga Enterprises

**Job Code No:-**006-22-000007

**Ref no and Date of commencement of work:-**:- EE/Ele/YZ//WO/000006 /22-23 Date:01/04/2022

**Aggrement No & date:-**

**Measurement Book No:** **Page No:**

**Bill NO :- 8th RA Bill** **Bill Period : 01-03-2023 to 31-03-2023 (for 1 months)**

| Sl. No. | | Unit | Period in Months | Present Measurements | | |
|---|---|---|---|---|---|---|
| | | | | Qty | Tender Full Rate | Cost |
| 1 | Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 36/40 W fluorescent tube light street lighting systems. | Each | 1 | 79.00 | 34.16 | 2698.64 |
| 2 | Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 125 W HPMV light Park lighting systems. | Each | 1 | 45.00 | 54.16 | 2437.20 |
| 3 | Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents for 250W HPSV street light lighting systems. | Each | 1 | 4805.00 | 81.00 | 389205.00 |
| 4 | Operation and Maintenance of street lighting system including replacement of damaged/failed/fused out components like Lamps, Tubes, Chokes, Ignitors, Capacitors, Switches , wires, Holders, Starters ,and switching ON/OFF of street lights at specified timing and Pole numbering, Preparing ward wise, street wise data bank furnishing maintenance reports ,every day etc, complete so as to ensure efficient burning of street lights detailed in tender documents 400 watts HPSV street light/High Mast lighting systems. | Each | 1 | 120.00 | 91.66 | 10999.20 |

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Assistant Executive Engineer (Ele)
BBMP, Bangalore

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| 5 | Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 24 watt LED park lighting systems. | Each | 1 | 32.00 | 66.66 | 2133.12 |
| 6 | Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 65 watt LED street light lighting systems. | Each | 1 | 727.00 | 91.66 | 66636.82 |
| 7 | Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/fused out compnents like LED drivers MCPCB surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 90 watt LED street light lighting systems. | Each | 1 | 19.00 | 108.33 | 2058.27 |
| 8 | Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/ fused out compnents like LED drivers MCPCB surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 110/120 watt LED streetlight lighting system | Each | 1 | 0.00 | 125.00 | 0.00 |
| 9 | Operation and Maintenance of LED Street lighting system including replacement of damaged/failed/ fused out compnents like LED drivers MCPCB surge protective device switches, Wires Holders, Staters observing weather proofing technic confirming to IP 65 standards and switching ON/OFF of Street lights at specified timing and pole numbering. Preparing ward wise Street wise Street light data bank furnishing maintenance reports every day etc.., complete so as to ansure efficient burning of Street lights detailed in Tender documents for 150 watt LED street light /High mast lighting system | Each | 1 | 0.00 | 150.00 | 0.00 |

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BBMP, Bangalore

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| 10 | Painting of existing Street lighting pole after scraping the oid paint and painted with suitable colour enamel/silver paint including copingflooting of the polec) Up to 5 Mtrs Street light pole | Nos | - | 0.00 | 415.00 | 0.00 |
| 11 | Painting of existing Street lighting pole after scraping the oid paint and painted with suitable colour enamel/silver paint including copingflooting of the polec) 8 Mtr and above Street light pole | Nos | - | 0.00 | 650.00 | 0.00 |
| 12 | Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. ( Icu = Ics) 100Amps 25kA. | Each | - | 0.00 | 3850.00 | 0.00 |
| 13 | Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop- Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/ Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets.260mmx210mmx116mm | Each | - | 0.00 | 1850.00 | 0.00 |
| 14 | Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm | Mtr | - | 0.00 | 140.00 | 0.00 |
| 15 | Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.On wall /Structure 6 sqmm to 16 sqmm | Mtr | - | 0.00 | 20.00 | 0.00 |
| 16 | Supply and fixing of 4 pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.100 to 125Amps | Each | - | 0.00 | 6200.00 | 0.00 |
| 17 | Supplying and fixing Microprocessor Based Astronomical timer Switch with using necessary bolts, nuts and washers. | Each | - | 0.00 | 2859.00 | 0.00 |
| 18 | Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 50-63 Amps | Each | | 0.00 | 623 | 0.00 |

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| 19 | 1.1 kV, LT Aerial Bunched Cable, confirming to IS-14255: 1995 XLPE insulation Parameter shall be as below. 1. Hot Set Test:<br>a) Elongation under Load: 50% (Max)<br>b) Permanent Elongation After Cooloing: 3% (Max)<br>2. Thermal Aging in oven:<br>a) Tensile Strength: 16 N/mm² (Min)<br>b) Elongation: 375% (Min)<br>3. Water Absorption Test<br>a) Water absorbed: 0.5 mg/cm² (Max)<br>4. Carbon Black Content shall be ranging from 2% to 3%<br>3x25 + 1x25 + 1x16 Sqmm Street light (Insulated Messenger cum Neutral) | KM | | 0.00 | 125000.00 | 0.00 |
| 20 | Stringing of 1.1 kV grade Aerial Bunched 3 Core cable of XLPE insulation of size (3x95) (Phase Conductor) + (1x70) (Insulated Messenger Neutral) + (1x25) (Street Light Control) | KM | | 0.00 | 10500.00 | 0.00 |
| | TOTAL Rs | | | | | **476168.25** |
| | Add GST 12 % on item no 10 to 18 | | | | | **0.00** |
| | TOTAL Rs | | | | | **476168.25** |
| | Fine imposed for non burning of street lights For the period of 1/03/2023 to 31/03/2023 | | | | | 5500.00 |
| | As per street light agreement clause 2% will be deducted in monthly maintenance bill against the released scrap material | | | | | 9523.37 |
| | Less Exces paid in Rabill No 6, Item No 17 , Qty 1 No Rate 2859.00 | | | | | 2859.00 |
| | Less Exces GST Paid In Rabill No 6, Item No 19&20 , Paid 80771.64 - 39959.04 = Excess paid Rs 40812.60 | | | | | 40812.60 |
| | GRAND TOTAL | | | | | 417473.29 |

**CERTIFICATE**

1.This is to certify that the work done is saticefactorily.

2.This is to certify that the bill amount calimed in this bill does not claimed in any of the previous bill.

Junior Engineer(Elec)
Yalahanka Division

Asst.Exe.Engineer(Elec)
Yalahanka Division